Product Data Sheet

PDS-PCP-0497

NTZ 278*065SIT1.6 (Insertable PCP)

ISO-1.6-650

Technical Data

Nominal Flow	100 rpm Δp = 0	[m³/d]	1,6
		[bpd]	10
Design Pressure		[bar]	65
		[psi]	943

Geometry Style		Single Lobe	
Engaged Cavities		15	
Operating Speed	min.*	[rpm]	10
	max.*	[rpm]	500

*(Manufacturer's Recommendation.)

Insert Set Data

Seating Type	N11-25 Nipple (API 11AX)	
Minimum Tubing Size	2 7/8" x 6,5 lb/ft	
Rod Size Connection	API 11B	7/8" PIN
Pump Total Length	[mm]	4749
	[ft]	15,6

Maximum Outside Diameter	[mm]	59,6
	[in]	2,3
Pump Total Weight	[kg]	53
	[lb]	117,6

Stator Data

Length	[mm]	975
	[ft]	3,2
Weight	[kg]	8
	[lb]	17,9

Rotor Data

Length		[mm]	1500
		[ft]	4,9
Weight		[kg]	7
		[lb]	14,8
Coating	Chrome	Tickness [µm]	Up to 500
Swept Angle		[Degrees]	29

Rotor Positioning Data

Spacing Length			[mm]	350
			[ft]	1,1
Rod Size	5/8"	3/4"	7/8"	1"
k*	0,135	0,079	0,046	0,024

* (Applied in Accordance with Pump Instruction Manual.)

Rev.	00	Date	October 13, 2023

Anchoring Data

Seat Seal Type		Elastomer Seal or PTFE Cups Seal	
Axial Load	Anchor	[kgf]	200
		[lbf]	441
	Unanchor	[kgf]	1000
		[lbf]	2205

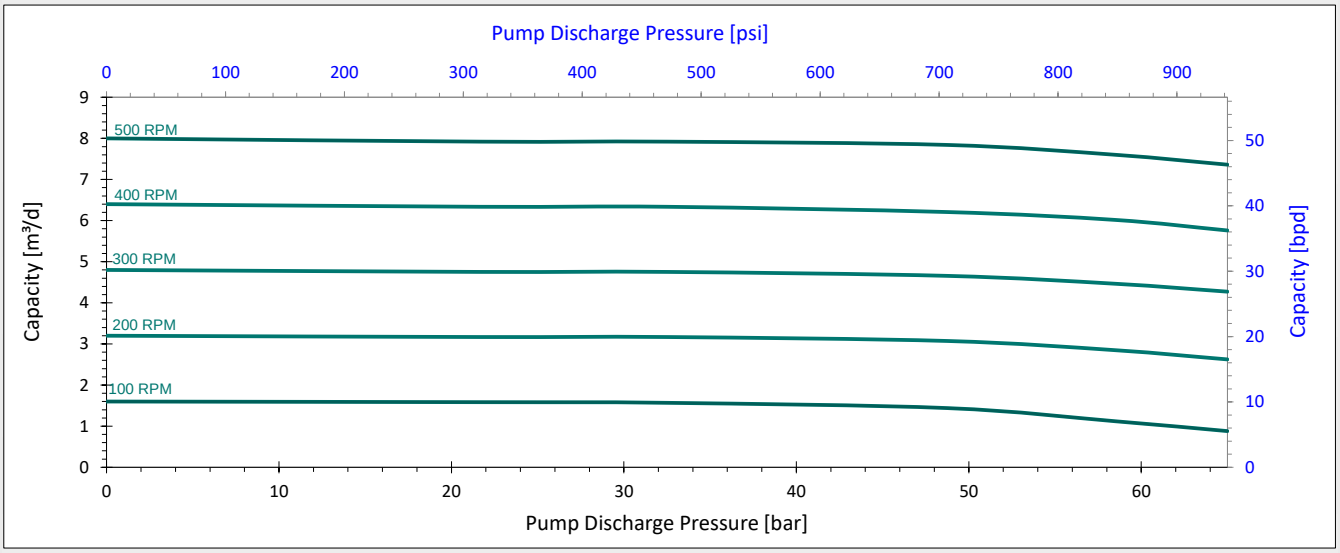
Product Data Sheet

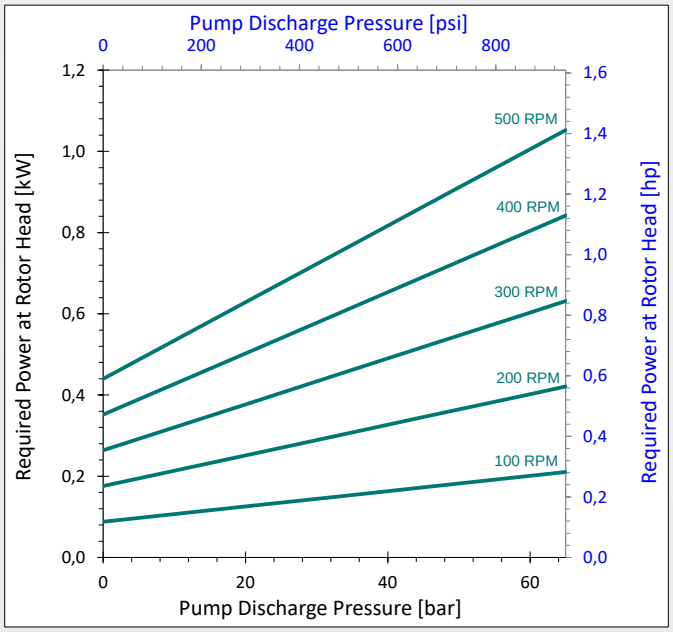
PDS-PCP-0497

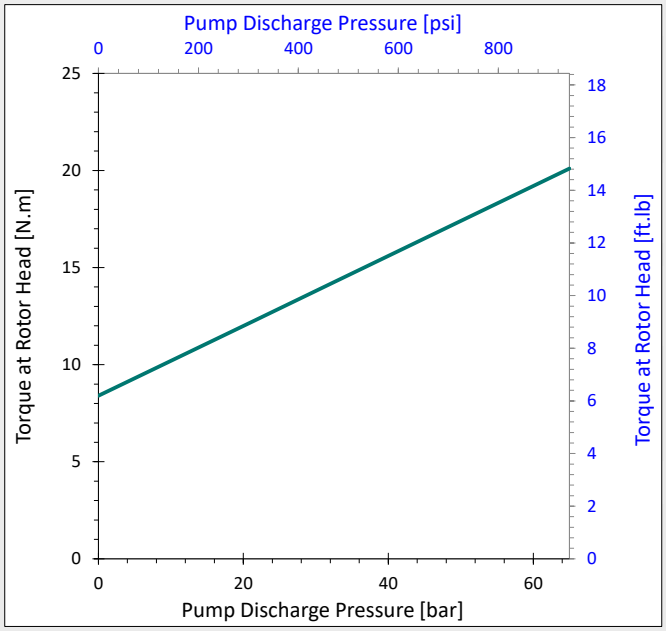
NTZ 278*065SIT1.6 (Insertable PCP)

ISO-1.6-650

Performance Curves and Efficiency of PCP







Notes:

* The pump was tested with water using a standard rotor, whose dimensions are according to our tolerance classes.
* Tolerance classes of PCP are based on our experience combining good performance and long life.
* The optimum performance will be reached after a running time of approximately 100 hours.
* Volumetric displacement of pumps can vary within a range of -5% and +10% at zero head.
* Pump performance will vary with each application.

Documentation

Instruction Manual	NETZSCH Progressing Cavity Pump
Elastomer	NTZ Elastomer Overview